

Formación online sobre la Web of Science

Módulo C dirigido a los bibliotecarios y personal administrativo

Curso C3 – Encontrar las publicaciones más citadas y ver los indicadores de influencia

20 de abril del 2020

Formadora: Anne Delgado



GOBIERNO
DE ESPAÑA

MINISTERIO
DE CIENCIA
E INNOVACIÓN

FECYT



FUNDACIÓN ESPAÑOLA
PARA LA CIENCIA
Y LA TECNOLOGÍA

Agenda

Curso C3

- El alcance y cobertura de Essential Science Indicators (ESI)
- Entender las métricas de desempeño
- ¿Qué es un Highly Cited Paper?
- ¿Qué es un Hot Paper?
- ¿Qué es un Research Front?
- ¿Qué significa ser un Highly Cited Researcher?
- Los informes globales de ISI

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¿Por qué el Essential Science Indicators (ESI)?

From Sputnik to the World Wide Web A Retrospective View of Citation Indexing

essential

by

Eugene Garfield

Chairman Emeritus, ISI^a

Publisher, *The Scientist*^a

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at

ACRL Science & Technology Program Titled

Quantum Leaps by Decade: Future "Caching" the Past - Forty Years of Creating New Communities for Science Librarianship Through Collaboration

ALA Annual Meeting, San Francisco

June 18, 2001

summary. For the impact ²⁴ The most likely explanation with impact factors is that in the long literature on this topic. Not less than 100 articles in the past year from the period of these data. And there is great pressure on ISI to modify its method of calculating impact to better reflect long-term vs. short-term impact. ²⁵ This is reflected in their new *Essential Science Indicators*.²⁶

ESI was developed by ISI to provide an alternative methodology to the Impact Factor to measure long term impact versus short term

Essential Science Indicators (ESI) is an analytical tool that helps you identify top-performing research in Web of Science Core Collection. ESI surveys more than 11,000 journals from around the world to rank authors, institutions, countries, and journals in 22 broad fields based on publication and citation performance.

Los datos de ESI

Agricultural Sciences
Biology & Biochemistry
Chemistry
Clinical Medicine
Computer Science
Ecology/Environment
Economics & Business
Engineering
Geosciences
Immunology
Material Sciences
Mathematics
Microbiology
Molecular Biology & Genetics
Multidisciplinary
Neuroscience & Behavior
Pharmacology & Toxicology
Physics
Plant & Animal Science
Psychology/Psychiatry
Social Sciences, general
Space Science



- **Source:** Science Citation Index-Expanded (SCIE) and the Social Sciences Citation Index (SSCI) in Web of Science Core Collection.
- **Document Types:** ESI analyzes articles and reviews from SCIE and SSCI journals to determine how well a paper, organization, etc. is performing.
- **Depth of Data:** ESI data consists of a 10-year rolling file, which increases with each bimonthly update.
- **Fields:** ESI uses 22 broad disciplines to rank entities and identify top-performing papers. Each journal is assigned to only one field, and the research published in that journal will take on that field assignment (In the case of Multidisciplinary journals, reclassification is done at the paper level, based on an analysis of the cited references. This means that papers published in journals like *Science* and *Nature* could belong to fields that are more specific than Multidisciplinary)
- **Citation Counts:** Only citations from indexed journals in the Science Citation Index Expanded, Social Science Citation Index and Arts & Humanities Citation Index, are taken into account for ESI purposes.

Recomendación – Registrarse en JCR/ESI con las mismas credenciales

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Web of Science InCites **Journal Citation Reports** **Essential Science Indicators** EndNote Publons Kopernio

Web of Science

INSTITUTIONAL USERS SIGN IN
Authorized users select your institution's group or regional affiliation:
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Federation of Spain by FECYT
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German Higher Education and Research (DFN-AAI)
Hungarian Higher Education and Research Interface
INFED (Indian Federation)
Incommon Federation
Irish Higher Education & Research (Edugate)

INFORMACIÓN PARA INVESTIGADORES

ACCESO A BASES DE DATOS
FORMACIÓN
ATENCIÓN AL USUARIO
ACCESO A ADMINISTRADORES
ACCESO A METADATOS
INFORMACIÓN PARA INVESTIGADORES

REVISTAS INDEXADAS ENLACE DE ACCESO DIRECTO A LAS B... RECOMENDACIONES

FECYT proporciona los enlaces de acceso directo a las distintas bases de datos para todas aquellas instituciones de estos enlaces en los portales de sus bibliotecas:

- Acceso directo a Scopus: <https://scopus.com>
- Acceso directo a cada una de las bases de datos de Web of Science: www.fecyt.es
 - ISI Essential Science Indicators: esi.fecyt.es
 - ISI Journal Citation Reports: jcr.fecyt.es
 - ISI Web of Science: woscc.fecyt.es
- Science Citation Index™ Expanded (SCI-EXPANDED): wos-sci.fecyt.es
- Social Sciences Citation Index® (SSCI): wos-ssci.fecyt.es

Nuevo enlaces

Acceder en remoto (sin Shibboleth)

Enlaces directos (sólo se puede acceder con una cuenta personalizada)

- Web of Science: <https://webofknowledge.com>
- Journal Citation Reports: <https://jcr.clarivate.com>
- Essential Science Indicators: <https://esi.clarivate.com>

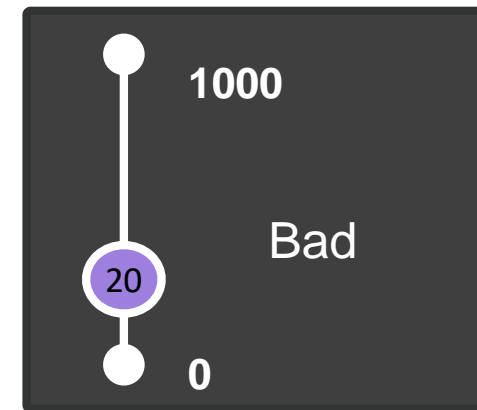
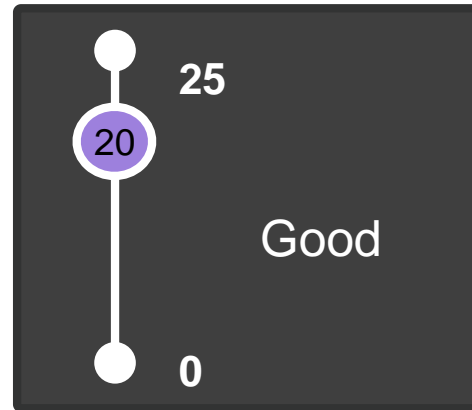
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Context is everything

¿El total de citas acumuladas por esta publicación es alto o es bajo?



Depende del campo de investigación y del año de publicación

ESI Field Baselines

Citation Rates per year and field, allow the comparison of the number of citations for specific papers published the same year and indexed in the same field

Field Baselines

Baselines are annualized expected citation rates for papers in a research field.

Citation Rates are yearly averages of citations per paper.

Citation Rates	RESEARCH FIELDS ▲	2009	2010	2011	2012	2013	2014	2015	2016
	ALL FIELDS	23.98	22.30	19.75	17.43	14.98	12.57	9.81	6.72
Percentiles	AGRICULTURAL SCIENCES	17.21	16.22	14.29	12.66	11.03	9.37	7.33	5.07
	BIOLOGY & BIOCHEMISTRY	34.10	30.48	26.45	23.37	19.59	16.00	11.99	8.12
Field Rankings	CHEMISTRY	25.32	24.27	22.59	21.00	18.03	15.86	12.76	8.91
	CLINICAL MEDICINE	25.43	23.10	20.34	17.87	15.22	12.60	9.86	6.60
Context is everything: - Research Fields - Publication Year	COMPUTER SCIENCE	12.90	12.11	11.86	9.69	8.92	7.94	6.60	4.64
	ECONOMICS & BUSINESS	18.38	16.61	14.29	11.64	9.79	7.72	5.61	3.56
	ENGINEERING	15.19	14.40	13.10	11.63	10.59	9.15	7.51	5.49
	ENVIRONMENT/E COLOGY	28.48	26.62	23.04	20.47	16.93	13.77	10.58	7.05
	GEOSCIENCES	26.50	23.59	21.64	18.50	15.79	12.68	9.74	6.45
	IMMUNOLOGY	37.94	34.09	29.77	24.95	22.01	18.13	13.57	9.33
	MATERIALS SCIENCE	24.51	25.62	23.14	21.45	18.82	16.92	13.57	9.81

Los umbrales de citas en ESI

Inclusion in ESI is dependent upon meeting certain citation thresholds. Only the most highly cited individuals, institutions, journals, countries and papers are included in ESI. This chart shows the citation thresholds that must be met in order to appear in ESI.

Entity	Percentile	Data Years
Researchers	1%	10
Institutions	1%	10
Countries	50%	10
Journals	50%	10
Highly Cited Papers	1%	10
Hot Papers	0.1%	2

How to Read This Table: This table shows you the citation performance threshold that an entity's research needs to meet in order for it to qualify as Highly Cited in a field. Data Years refers to the years examined - 10 means that the full ESI data file is considered. Percentiles are inverted, so 1% means that an entity is performing in the top 1% when compared to peers.

Citation Thresholds

A citation threshold is the minimum number of citations obtained by ranking papers in a research field in descending order by citation count and then selecting the top fraction or percentage of papers.

The ESI Threshold reveals the number of citations received by the top 1% of authors and institutions and the top 50% of countries and journals in a 10-year period.

ESI Thresholds	RESEARCH FIELDS ▲	AUTHOR	INSTITUTION	JOURNAL	COUNTRY
Highly Cited Thresholds	AGRICULTURAL SCIENCES	528	2,495	1,347	1,472
Hot Paper Thresholds	BIOLOGY & BIOCHEMISTRY	1,054	6,823	305	1,228
	CHEMISTRY	2,148	8,502	1,434	2,297
	CLINICAL MEDICINE	2,419	3,380	2,905	16,012
	COMPUTER SCIENCE	465	3,906	1,590	525
	ECONOMICS & BUSINESS	463	4,891	1,429	321
	ENGINEERING	745	2,843	3,026	1,863
	ENVIRONMENT/ECOLOGY	930	4,544	2,214	2,940
	GEOSCIENCES	1,386	6,695	2,390	1,765
	IMMUNOLOGY	1,034	5,419	432	2,800
	MATERIALS SCIENCE	1,989	6,965	3,326	1,557
	MATHEMATICS	372	4,888	850	494
	MICROBIOLOGY	762	5,774	324	1,585
	MOLECULAR BIOLOGY & GENETICS	2,784	14,681	350	2,566
	MULTIDISCIPLINARY	556	2,903	34	219
	NEUROSCIENCE & BEHAVIOR	1,412	6,795	1,420	904
	PHARMACOLOGY & TOXICOLOGY	610	3,666	5,026	1,229
	PHYSICS	13,581	21,325	1,999	3,573
	PLANT & ANIMAL SCIENCE	711	3,051	2,053	2,192
	PSYCHIATRY/PSYCHOLOGY	850	4,398	1,781	469
	SOCIAL SCIENCES, GENERAL	438	1,610	1,056	1,741
	SPACE SCIENCE	6,338	41,738	1,670	951

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How to Read This Table: This table shows you the citation performance threshold that an entity's research needs to meet in order for it to qualify as Highly Cited in a field. Data Years refers to the years examined - 10 means that the full ESI data file is considered. Percentiles are inverted, so 1% means that an entity is performing in the top 1% when compared to peers.

Algunos ejemplos de reconocimiento

- **Highly Cited Papers** are papers that have received enough citations to place them in the top 1% when compared to all other papers published in the same year in the same field, i.e. 2008 Physics papers are only compared to other 2008 Physics papers to determine whether they have been cited enough to rank in the top 1%.
- For **Hot Papers**, only papers published in the last 2 years are considered. Hot Papers are receiving citations quickly after publication. These papers have been cited enough times in the most recent bimonthly period to place them in the top 0.1% when compared to peer papers. Peer papers are papers that were added to WoS Core Collection during the same bimonthly update and belong to the same field.

2017 ESC Guidelines for the management of acute myocardial infarction in patients presenting with ST-segment elevation The Task Force for the management of acute myocardial infarction in patients presenting with ST-segment elevation of the European Society of Cardiology (ESC)

Por: Ibanez, B (Ibanez, Borja)^[1,2,3]; James, S (James, Stefan)^[4,5,6]; Agewall, S (Agewall, Stefan); Antunes, MJ (Antunes, Manuel J.); Bucciarelli-Ducci, C (Bucciarelli-Ducci, Chiara); Bueno, H (Bueno, Hector); Caforio, ALP (Caforio, Alida L. P.); Crea, F (Crea, Filippo); Goudevenos, JA (Goudevenos, John A.); Halvorsen, S (Halvorsen, Sigrun)...Más

Autoría conjunta: European Soc Cardiology

[Ver número de ResearcherID y ORCID de Web of Science](#)

EUROPEAN HEART JOURNAL

Volumen: 39 Número: 2 Páginas: 119-177

DOI: 10.1093/eurheartj/ehx393

Fecha de publicación: JAN 7 2018

Tipo de documento: Article

[Ver impacto de la revista](#)

Red de citas

En Colección principal de Web of Science

1.167

Veces citado



Artículo muy citado



Artículo popular



Crear alerta de cita

Número de todas las veces citado

1,195 en Todas las bases de datos

[Ver más recuentos](#)

¿Qué es un artículo muy citado o un artículo candente?

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Por: Ibanez, B (Ibanez, Borja)^[1,2,3]; James, S (James, Stefan)^[4,5,6]; Agewall, S (Agewall, Stefan); Antunes, MJ (Antunes, Manuel J.); Bucciarelli-Ducci, C (Bucciarelli-Ducci, Chiara); Bueno, H (Bueno, Hector); Caforio, ALP (Caforio, Alida L. P.); Crea, F (Crea, Filippo); Goudevenos, JA (Goudevenos, John A.); Halvorsen, S (Halvorsen, Sigrun)...Más

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Número de todas las veces citado

Artículo muy citado

Artículo popular

Desde Julio/Agosto de 2019, este **artículo muy citado** recibió suficientes citas para incluirse en el 1% de los mejores artículos del campo académico de Clinical Medicine en función de un umbral de artículos muy citados para el campo y el año de publicación.

Datos de *Essential Science Indicators*

Cerrar ventana

Este **artículo popular** se publicó en los últimos dos años y recibió suficientes citas en Julio/Agosto de 2019 para incluirse en el 0,1% de los mejores artículos del campo académico de Clinical Medicine.

Datos de *Essential Science Indicators*

Cerrar ventana

Highly Cited Thresholds

A citation threshold is the minimum number of citations obtained by ranking papers in a research field in descending order by citation count and then selecting the top fraction or percentage of papers.

The Highly Cited Threshold reveals the minimum number of citations received by the top 1% of papers from each of 10 database years.

ESI Thresholds	RESEARCH FIELDS ▲	2009	2010	2011	2012	2013	2014	2015	2016	2017
Highly Cited Thresholds	AGRICULTURAL SCIENCES	136	141	114	101	90	76	64	49	
	BIOLOGY & BIOCHEMISTRY	279	255	217	197	170	140	112	83	
Hot Paper Thresholds	CHEMISTRY	228	222	220	198	172	154	130	96	
	CLINICAL MEDICINE	228	211	183	161	140	118	101	76	
	COMPUTER SCIENCE	134	129	121	101	101	94	75	63	
	ECONOMICS & BUSINESS	193	187	154	126	101	84	63	45	
	ENGINEERING	144	136	121	106	96	85	74	59	
	ENVIRONMENT/ECOLOGY	260	238	206	185	152	129	102	72	
	GEOSCIENCES	221	188	177	158	137	109	86	63	
	IMMUNOLOGY	343	302	257	222	203	180	134	99	
	MATERIALS SCIENCE	265	282	245	237	206	188	153	122	
	MATHEMATICS	83	81	67	57	47	40	35	27	
	MICROBIOLOGY	247	230	184	180	154	127	100	89	
	MOLECULAR BIOLOGY & GENETICS	501	454	408	339	283	235	178	131	
	MULTIDISCIPLINARY	493	555	431	296	325	185	193	141	
	NEUROSCIENCE & BEHAVIOR	298	276	226	201	169	140	108	82	
	PHARMACOLOGY & TOXICOLOGY	202	182	154	138	121	101	80	60	
	PHYSICS	182	175	154	145	129	114	95	74	
	PLANT & ANIMAL SCIENCE	159	149	126	109	95	79	64	46	
	PSYCHIATRY/PSYCHOLOGY	242	222	187	151	123	104	78	55	
	SOCIAL SCIENCES, GENERAL	138	128	109	94	80	69	52	38	
	SPACE SCIENCE	268	244	225	199	195	146	124	93	

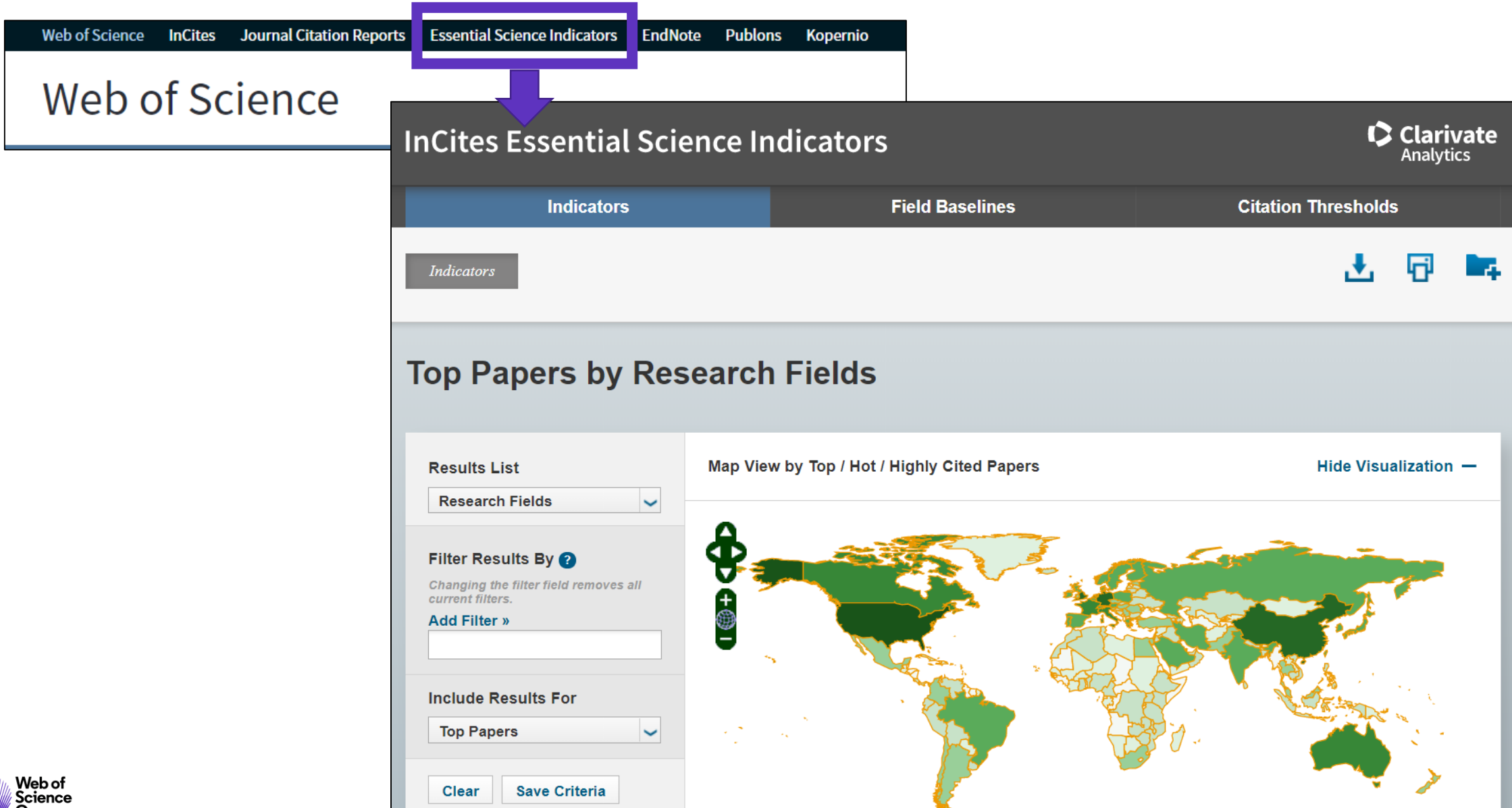
Hot Paper Thresholds

A citation threshold is the minimum number of citations obtained by ranking papers in a research field in descending order by citation count and then selecting the top fraction or percentage of papers.

The Hot Papers Threshold reveals the minimum number of citations received during the most recent two-month period by the top 0.1% of papers from the past two years.

ESI Thresholds	RESEARCH FIELDS ▲	2018-1	2018-2	2018-3	2018-4	2018-5	2018-6	20
Highly Cited Thresholds	AGRICULTURAL SCIENCES	9	8	9	8	7	7	
Hot Paper Thresholds	BIOLOGY & BIOCHEMISTRY	16	17	12	16	14	11	
	CHEMISTRY	17	19	18	17	15	14	
	CLINICAL MEDICINE	15	16	16	13	14	13	
	COMPUTER SCIENCE	11	12	10	12	9	10	
	ECONOMICS & BUSINESS	9	14	8	10	7	7	
	ENGINEERING	13	13	12	13	11	11	
	ENVIRONMENT/ECOLOGY	12	16	15	14	12	9	
	GEOSCIENCES	11	11	10	10	8	9	
	IMMUNOLOGY	18	25	14	14	9	11	
	MATERIALS SCIENCE	20	25	21	19	18	15	
	MATHEMATICS	6	7	8	6	9	7	
	MICROBIOLOGY	14	12	19	13	13	10	
	MOLECULAR BIOLOGY & GENETICS	21	30	27	28	22	17	
	MULTIDISCIPLINARY	30	18	21	11	9	27	
	NEUROSCIENCE & BEHAVIOR	11	13	11	10	12	9	
	PHARMACOLOGY & TOXICOLOGY	10	10	11	10	9	8	
	PHYSICS	13	15	13	11	12	10	
	PLANT & ANIMAL SCIENCE	8	7	8	7	6	7	
	PSYCHIATRY/PSYCHOLOGY	13	9	8	7	9	8	
	SOCIAL SCIENCES, GENERAL	8	6	7	8	7	6	
	SPACE SCIENCE	22	18	12	45	15	13	


Entrar en Essential Science Indicators



Los indicadores de ESI

Ejemplo 1


Results List


Research Fields 

Filter Results By ?

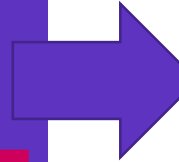
Changing the filter field removes all current filters.


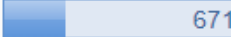
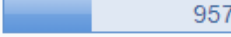
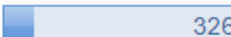
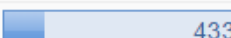
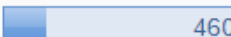
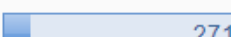
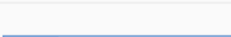
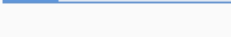
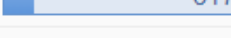
Add Filter »

 SPAIN

Top Papers 

Clear **Save Criteria**



Total: 23	Research Fields	Web of Science Documents	Cites ▼	Cites/Paper	Top Papers
1	CLINICAL MEDICINE	91,056	1,738,365	19.09	 2,491
2	CHEMISTRY	65,395	1,195,327	18.28	 671
3	PHYSICS	41,017	771,025	18.80	 957
4	MOLECULAR BIOLOGY & GENETICS	16,799	556,098	33.10	 326
5	ENGINEERING	46,767	477,916	10.22	 433
6	ENVIRONMENT/E COLOGY	27,926	477,471	17.10	 460
7	BIOLOGY & BIOCHEMISTRY	24,305	474,179	19.51	 271
8	PLANT & ANIMAL SCIENCE	36,181	463,194	12.80	 597
9	SPACE SCIENCE	14,267	384,478	26.95	 317
10	NEUROSCIENCE & BEHAVIOR	19,591	374,121	19.10	 267

Top Papers = Highly Cited Papers + Hot Papers

Los indicadores de ESI

Ejemplo 2

Results List

Research Fields

Filter Results By ?

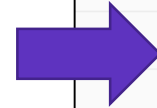
Changing the filter field removes all current filters.

Add Filter »

* UNIVERSITAT JAUME I

Include Results For

Top Papers



Total: 6	Research Fields	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	CHEMISTRY	1,210	34,973	28.90	41
2	MATERIALS SCIENCE	475	8,719	18.36	9
3	ENGINEERING	629	5,732	9.11	4
4	PLANT & ANIMAL SCIENCE	202	4,779	23.66	15
5	SOCIAL SCIENCES, GENERAL	433	1,956	4.52	2
0	ALL FIELDS	5,812	84,471	14.53	107

Results List

Institutions

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

* Chemistry

Include Results For

Top Papers



Total: 1252	Institutions	Countries/Regions	Web of Science Documents	Cites	Cites/Paper
22	INSTITUTE OF CHEMICAL RESEARCH OF CATALONIA	SPAIN	1,426	52,119	36.55
23	CSIC-UPV - INSTITUTO DE TECNOLOGIA QUIMICA (ITQ)	SPAIN	925	33,783	36.52
30	CSIC - INSTITUTO NACIONAL DEL CARBON (INCAR)	SPAIN	444	15,512	34.94
65	BARCELONA INSTITUTE OF SCIENCE & TECHNOLOGY	SPAIN	2,610	77,513	29.70
78	UNIVERSITAT JAUME I	SPAIN	1,210	34,973	28.90
102	UNIVERSITAT ROVIRA I VIRGILI	SPAIN	3,001	82,025	27.33

Filtro = Spain

Exportar: PDF, CSV or Excel

Indicators

Field Baselines

Citation Thresholds

Indicators

Top Papers by Institutions

Results List

Institutions

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

✖ Physics

Include Results For

Top Papers

Clear

Save Criteria

Map View by Top / Hot / Highly Cited Papers

Report View by Selection

Customize

Total: 752	Institutions	Countries/Regions	Web of Science Documents	Cites ▾	Cites/Paper
1	UNITED STATES DEPARTMENT OF ENERGY (DOE)	USA	46,045	1,077,059	23.39
2	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	FRANCE	58,604	1,073,437	18.32
3	UNIVERSITY OF CALIFORNIA SYSTEM	USA	31,268	859,600	27.49
4	CHINESE ACADEMY OF SCIENCES	CHINA MAINLAND	63,563	827,750	13.02
5	MAX PLANCK SOCIETY	GERMANY (FED REP GER)	24,239	613,621	25.32
6	HELMHOLTZ ASSOCIATION	GERMANY (FED REP GER)	26,549	537,036	20.23
7	UNIV PARIS SACLAY COMUE	N/A	24,775	527,511	21.29

Select download format

PDF

CSV

XLS

Exportar listas de Highly Cited/Hot Papers



The screenshot displays the 'Papers by Research Field' page on the Web of Science platform. The interface includes a top navigation bar with 'Indicators' and 'Citation Trends' tabs. A left sidebar contains sections for 'Citation Trends', 'Documents', and 'Filter Results By' (with an 'Add Filter »' link). The 'Filter Results By' section shows a selected filter for 'UNIVERSITY OF EVORA' and an 'Include Results For' dropdown set to 'Top Papers'. The main content area lists two papers, sorted by 'Citations'. A download menu is open in the top right corner, showing options for 'CSV' and 'XLS' formats. The first paper listed is 'APPLICATION OF LOW-COST ADSORBENTS FOR DYE REMOVAL - A REVIEW' with 1,708 citations. The second paper is 'BIOMOD - A PLATFORM FOR ENSEMBLE FORECASTING OF SPECIES DISTRIBUTIONS' with 811 citations. Both papers are from the 'ENVIRONMENT/ECOLOGY' research field.

Papers by Research Field

Indicators Citation Trends

Sort By Citations Customize Documents 1 - 10 of 27

1 APPLICATION OF LOW-COST ADSORBENTS FOR DYE REMOVAL - A REVIEW Times Cited: 1,708

By: GUPTA, VK; SUHAS;
Source: JOURNAL OF ENVIRONMENTAL MANAGEMENT 90 (8): 2313-2342 JUN 2009
Research Fields: ENVIRONMENT/ECOLOGY

2 BIOMOD - A PLATFORM FOR ENSEMBLE FORECASTING OF SPECIES DISTRIBUTIONS Times Cited: 811

By: THUILLER, W; LAFOURCADE, B; ENGLER, R; et.al
Source: ECOGRAPHY 32 (3): 369-373 JUN 2009
Research Fields: ENVIRONMENT/ECOLOGY

Filter Results By ?
Add Filter »
x UNIVERSITY OF EVORA
Include Results For
Top Papers

Select download format
CSV
XLS

Guardar informes

Top Papers by Institutions

Results List

Institutions

Filter Results By ?

Changing the filter field removes all current filters.

Add Filter »

× Physics

Include Results For

Top Papers

Clear Save Criteria

Map View by Top / Hot / High

Report View by Selection

Total: 752

	Institutions				
1	UNITED STATES DEPARTMENT OF ENERGY (DOE)			1,077,059	23.39
2	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS)	FRANCE	58,604	1,073,437	18.32
3	UNIVERSITY OF CALIFORNIA SYSTEM	USA	31,268	859,600	27.49
4	CHINESE ACADEMY OF SCIENCES	CHINA MAINLAND	63,563	827,750	13.02
5	MAX PLANCK SOCIETY	GERMANY (FED REP GER)	24,239	613,621	25.32
6	HELMHOLTZ ASSOCIATION	GERMANY (FED REP GER)	26,549	537,036	20.23
7	UNIV PARIS SACLAY COMUE	N/A	24,775	527,511	21.29

Show Visualization +

Customize

Save Selection

Please specify a name for your selections:

Save Cancel

Agenda

Curso C3

- El alcance y cobertura de Essential Science Indicators (ESI)
- Entender las métricas de desempeño
- ¿Qué es un Highly Cited Paper?
- ¿Qué es un Hot Paper?
- ¿Qué es un Research Front?
- ¿Qué significa ser un Highly Cited Researcher?
- Los informes globales de ISI

¿Qué es un Research Front?

Research Fronts are formed when **clusters of highly cited papers are frequently cited together**, reflecting a specific commonality in the research – sometimes experimental data, a method, a concept or a hypothesis. The ability to identify these Research Fronts and to track emerging specialty areas of research provides a distinct advantage for governments, policy makers, publishers, research administrators and others who monitor, support and advance the conduct of research, often in the face of finite resources.

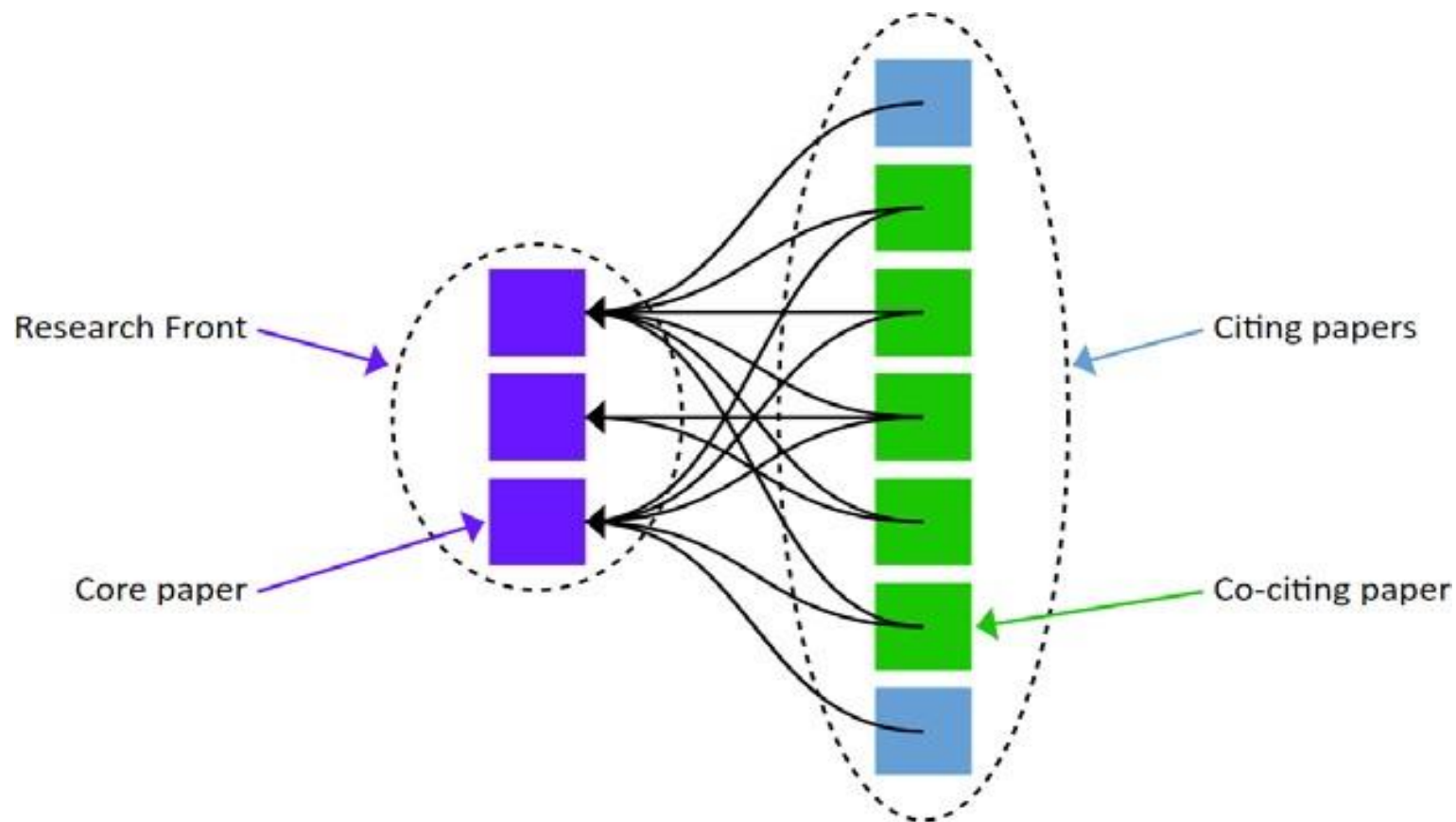
Clarivate Analytics and the Chinese Academy of Sciences released a **annual joint report** to identify the hottest and emerging specialty areas in scientific research

Find the report “Research Fronts 2019” here

<https://clarivate.com/webofsciencegroup/news/clarivate-analytics-and-the-chinese-academy-of-sciences-release-annual-joint-report-to-identify-137-research-fronts/>

https://discover.clarivate.com/ResearchFronts2019_EN

¿Qué es un Research Front?



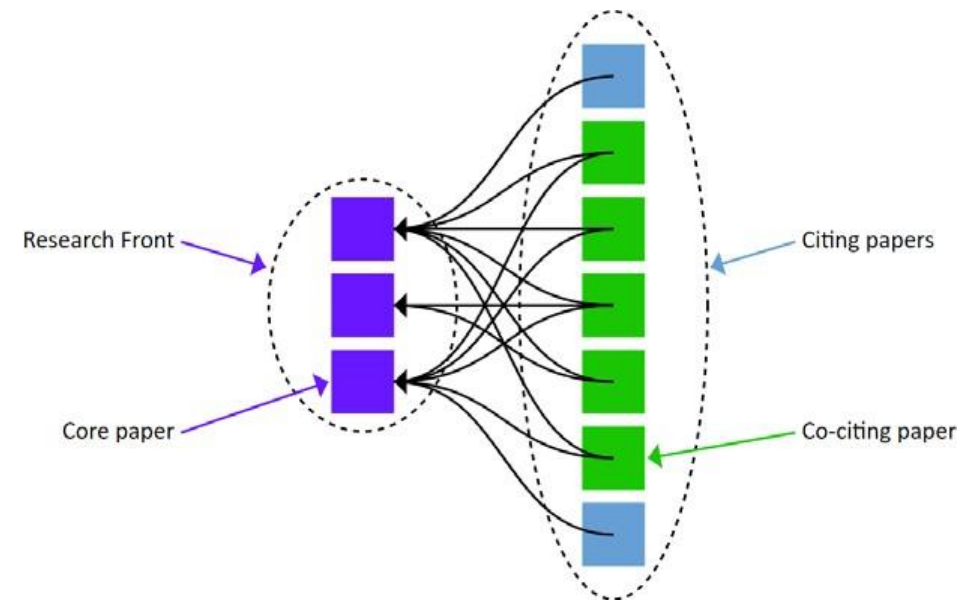
A research front is a **cluster of highly cited papers over a five-year period** - referred to as "core papers" - in a specialized topic defined by a cluster analysis.

Identifying research fronts involves manipulating the co-cited papers in order to group together those that are strongly related.

¿Qué es un Research Front?

- Research front analysis will not identify all research areas or all the papers in an area. However, it can assist in **identifying areas where important work is being done and where the scientific community is focusing its attention.**
- A measure of association between highly cited papers is used to form the clusters. That measure is the number of times pairs of papers have been co-cited, that is, the number of later papers that have cited both of them. Clusters are formed by selecting all papers that can be linked together by a specified co-citation threshold.
- The clusters are named using a semi-automatic process based on frequently occurring title words and phrases.

- Field Classification: Research fronts are assigned to the 22 broad fields based on the field of the most frequently occurring journal in the front.



Los Research Fronts en ESI

The screenshot displays the Web of Science Research Fronts interface. On the left, a sidebar contains a 'Results List' with a dropdown menu set to 'Research Fronts'. Below this is a 'Filter Results By' section with a text input field containing 'Agricultural Sciences' and a 'Clear' button. Further down is an 'Include Results For' section with a dropdown menu set to 'Top Papers' and a 'Save Criteria' button. The main content area shows a 'Map View by Top / Hot / Highly Cited Papers' and a 'Report View by Selection'. A table lists research fronts, with the first one highlighted by a purple box and a purple arrow pointing to a 'Citation Trends' window. This window shows a list of documents, with the first one highlighted by a purple box. The document list includes the title, authors, source, and research fields. The 'Citation Trends' window also shows a 'Sort By' dropdown set to 'Citations' and a 'Customize Documents' button. The document list shows two documents: 1. 'CLASSIFICATION OF FRESH AND FROZEN-THAWED PORK MUSCLES USING VISIBLE AND NEAR INFRARED HYPERSPECTRAL IMAGING AND TEXTURAL ANALYSIS' by PU, HB; SUN, DW; MA, J; et.al, and 2. 'NON-DESTRUCTIVE PREDICTION OF THIOBARBITURIC ACID REACTIVE SUBSTANCES (TSARS) VALUE FOR FRESHNESS EVALUATION OF CHICKEN MEAT USING HYPERSPECTRAL IMAGING' by XIONG, ZJ; SUN, DW; PU, HB; et.al.

Results List
Research Fronts

Filter Results By ?
Changing the filter field removes all current filters.
Add Filter »
× Agricultural Sciences

Include Results For
Top Papers
Clear Save Criteria

Map View by Top / Hot / Highly Cited Papers Show Visualization

Report View by Selection Custom

Total: 472

Top Papers

1 **HYPERSPECTRAL IMAGING ANALYSIS; HYPERSPECTRAL IMAGING TECHNIQUE; NONDESTRUCTIVE HYPERSPECTRAL IMAGING MONITORING; NIR HYPERSPECTRAL IMAGING; HYPERSPECTRAL IMAGING BASED** 43

2 **EXOGENOUS MELATONIN CONFERS SALT STRESS TOLERANCE; MELATONIN TREATMENT DELAYS POSTHARVEST SENESENCE; MELATONIN CONFERS PLANT TOLERANCE; EMPLOYING EXOGENOUS MELATONIN APPLYING CONFERS CHILD TOLERANCE; MELATONIN ALLEVIATES ALUMINUM-INDUCED ROOT GROWTH INHIBITION** 38

3 **HIGHLY DEFATTED BLACK SOLDIER FLY LARVAE (HERMETIA ILLUCENS L; BLACK SOLDIER FLY (HERMETIA ILLUCENS) PRE-PUPAE MEAL; BLACK SOLDIER FLY LARVAE (HERMETIA**

Citation Trends

Documents

Filter Results By ?
Add Filter »
× HYPERSPECTRAL IMAGING ANALYSIS; HYPERSPECTRAL IMAGING TECHNIQUE; NONDESTRUCTIVE HYPERSPECTRAL IMAGING MONITORING; NIR HYPERSPECTRAL IMAGING; HYPERSPECTRAL IMAGING BASED

Sort By Citations **Customize Documents** 1 - 10 of 43

1 **CLASSIFICATION OF FRESH AND FROZEN-THAWED PORK MUSCLES USING VISIBLE AND NEAR INFRARED HYPERSPECTRAL IMAGING AND TEXTURAL ANALYSIS** Times Cited: 94 Research Front
By: PU, HB; SUN, DW; MA, J; et.al
Source: MEAT SCIENCE 99: 81-88 JAN 2015
Research Fields: AGRICULTURAL SCIENCES

2 **NON-DESTRUCTIVE PREDICTION OF THIOBARBITURIC ACID REACTIVE SUBSTANCES (TSARS) VALUE FOR FRESHNESS EVALUATION OF CHICKEN MEAT USING HYPERSPECTRAL IMAGING** Times Cited: 92 Research Front
By: XIONG, ZJ; SUN, DW; PU, HB; et.al
Source: FOOD CHEMISTRY 179: 175-181 JUL 15 2015
Research Fields: AGRICULTURAL SCIENCES

Agenda

Curso C3

- El alcance y cobertura de Essential Science Indicators (ESI)
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- ¿Qué es un Research Front?
- ¿Qué significa ser un Highly Cited Researcher?
- Los informes globales de ISI

¿Qué significa ser un “Highly Cited Researcher”?

Highly Cited Researchers

Powered by Web of Science

<https://recognition.webofsciencegroup.com/awards/highly-cited/2019/>

2019 Recipients

Methodology

FAQs

Recognizing the world's most influential researchers of the past decade, demonstrated by the production of multiple highly-cited papers that rank in the top 1% by citations for field and year in Web of Science.

Resources

- [Executive Summary](#)
- [On-demand webinar: What it means to be a Highly Cited Researcher](#)
- [Download archived HCR lists](#)
- Download [media press kit](#). For other media enquires email isi@clarivate.com

Executive Summary

Experts from the Institute for Scientific Information provide exclusive insight into the list of Highly Cited Researchers 2019, including the methodology, country, and institutional breakdowns, and much more.

[Download the report](#)

Name

Award Categories

Institution

Region

[Clear all](#)

¿Qué significa ser un “Highly Cited Researcher”?

2019 Recipients

Methodology

FAQs

Overview

Total de Highly Cited Papers en los 10 últimos años

- The Highly Cited Researchers list from the Web of Science Group identifies scientists and social scientists who have demonstrated significant influence through publication of multiple papers, highly cited by their peers, during the last decade.
- Researchers are selected for their exceptional performance in one or more of 21 fields (those used in the Web of Science Group's [Essential Science Indicators](#), or ESI) or across several fields.
- All Highly Cited Researcher records are reviewed. Factors such as retractions, misconduct, and extreme self-citation—all of which would detract from true community-wide research influence—may lead to an author being excluded or suppressed from the list. Approximately 6,200 researchers are named Highly Cited Researchers in 2019—some 3,700 in specific fields and about 2,500 for cross-field performance. This is the second year that researchers with cross-field impact are identified. The recognition of researchers with substantial influence in several fields keeps the Highly Cited Researcher list contemporary and relevant.

Contexto = Los 21 campos de investigación de ESI

- The number of researchers selected in each field is based on the square root of the population of authors listed on the field's highly cited papers. The number of those with cross-field influence is determined by finding those who have influence equivalent to those identified in the 21 fields.
- For the 2019 Highly Cited Researchers analysis, the papers surveyed were the most recent papers available to us—those published and cited during 2008-2018 and which then ranked in the top 1% by citations for their ESI field and year (the definition of a highly cited paper).
- The threshold number of highly cited papers for selection differs by field, with Clinical Medicine requiring the most and Economics & Business the least.

La ultima edición (Noviembre 2019)

Award Categories


MATHEMATICS X

Region

Spain


Clear all


La ultima edición (Noviembre 2019)



Juan J. Nieto

Web of Science ResearcherID [?]
B-1729-2010

 Highly cited





 Top peer reviewer

University of Santiago De Compostela

PUBLICATIONS	TOTAL TIMES CITED	H-INDEX	VERIFIED REVIEWS
304	11,427	56 [?]	84

Las distinciones aparecen automáticamente en el perfil Publons de cada investigador.

Awards

-  Highly Cited Researcher in the field of Mathematics - 2019
-  Top reviewers in Mathematics - September 2019
-  Highly Cited Researcher in the field of Mathematics - 2018
-  Highly Cited Researcher in the field of Mathematics - 2017

Agenda

Curso C3

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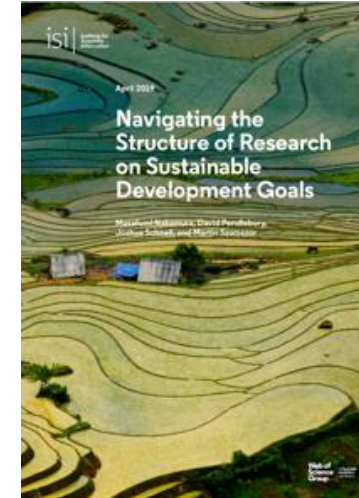
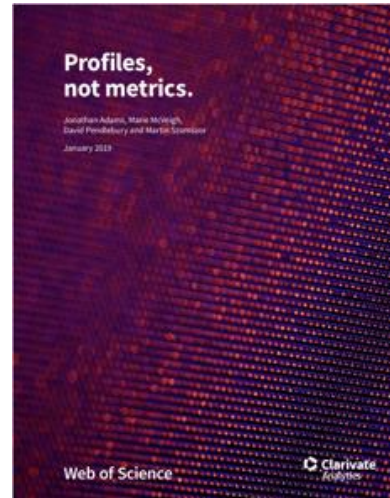
About the Global Research Reports from ISI

A reminder

- A new publication series to discuss and demonstrate the application of data about the research process to management issues in research assessment, research policy and the development of the global research base
- As the 'university' of the Web of Science Group, ISI maintains the knowledge corpus upon which Web of Science and related information and analytical content, products and services are built; it disseminates that knowledge internally through reports and recommendations and externally through events, conferences and papers; and it carries out research to sustain, extend and improve the knowledge base
- They demonstrate the quality of our unique data and our ability to analyze and interpret our data

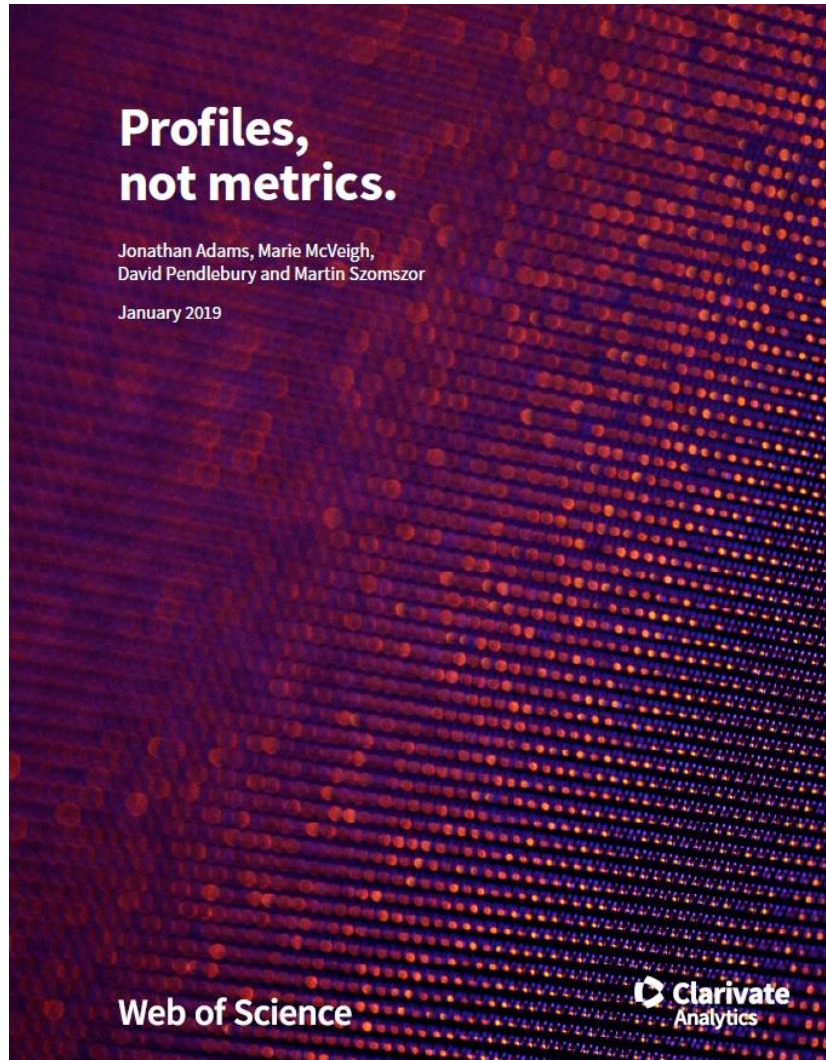
Global Research Reports 2019

A new publication series to discuss and demonstrate the application of data about the research process to management issues in research assessment, research policy and the development of the global research base.



<https://clarivate.com/webofsciencegroup/solutions/isi-reports/>

Global Research Reports 2019

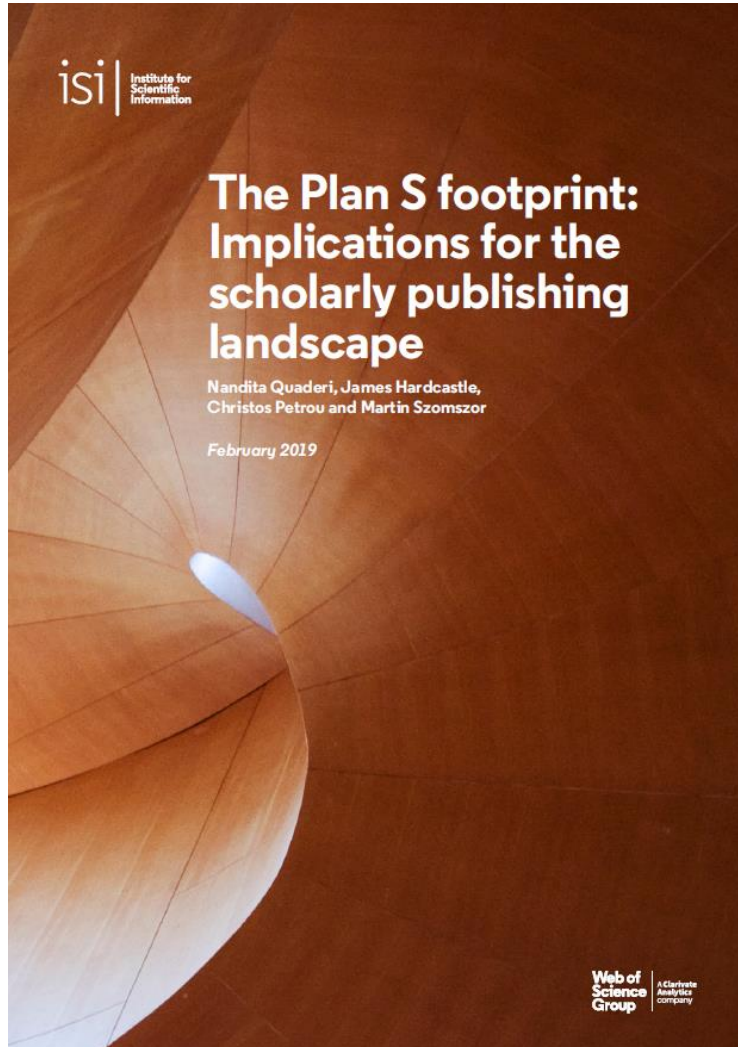


Beyond single-point metrics

In this report, we draw attention to the information that is lost when data about researchers and their institutions are squeezed into a simplified metric or league table.

We look at four familiar types of analysis that can obscure real research performance when misused and we describe four alternative visualizations that unpack the richer information that lies beneath each headline indicator and that support sound, responsible research management.

Global Research Reports 2019



Implications for the scholarly publishing landscape

This report, the second in the Global Research series from the *Institute for Scientific Information*, examines recent patterns of publications funded by Plan S supporters, exploring potential impacts on funders, subjects, countries, publishers, and journals.

Based on journal data taken from *Web of Science Core Collection*, the report looks to provide an unbiased and data-driven background analysis to inform the debate around a potentially transformative change in research policy. ‘The Plan S Footprint’ raises several questions for consideration by funders, publishers and institutions when exploring possible ways to implement Plan S.

Global Research Reports 2019



The Web of Science indexes a growing number of research articles with 1,000 or more unique authors or author addresses across more than 100 different countries. The combination of many authors/many countries creates a complex authorship pattern that differs from more typical academic papers and drives elevated citation rates.

Multi-authorship and research analytics examines the effects of complex and hyper-authorship by author, country, and discipline.

The report explores two patterns linking complex authorship with effects that increase citation rates: a general increase associated with multi-authorship (more than 10 authors and more than five countries); and more perturbing outcomes of hyper-authorship (more than 100 authors spread across more than 30 countries).

Muchas gracias

WoSG.support@clarivate.com

Nuevo email para el soporte al usuario